

REMARKS

At the outset, Applicants thank the Examiner for the thorough review and consideration of the pending application. The Office Action dated March 8, 2007 has been received and its contents carefully reviewed.

Claims 1-15 are currently pending, with claims 16-27 having been withdrawn. With this response, claims 1 and 12 have been amended. No new matter has been added.

In the Office Action, claims 1 and 3-15 are rejected under 35 U.S.C. §103(a) as being unpatentable over US Patent Publication 2002/0030657 to Kondo et al. (hereinafter “Kondo”) in view of US Patent Publication 2002/0030657 to Matsushima (hereinafter “Matsushima”). Claim 2 is rejected under 35 U.S.C. §103(a) as being unpatentable over Kondo and Matsushima, and further in view of Yamazaki et al. (hereinafter “Yamazaki”).

The rejection of claims 1 and 3-15 under 35 U.S.C. §103(a) as being unpatentable over Kondo in view of Matsushima is respectfully traversed and reconsideration is requested. Applicants submit that Kondo and Matsushima do not teach or suggest each and every element of the claims.

Independent claims 1 and 12 each recites a liquid crystal display having a combination of features including “liquid crystal cells arranged in a matrix defined by a plurality of gate lines crossing a plurality of data lines on a substrate [[and]] a thin film transistor at each of the liquid crystal cells, each thin film transistor connected to the data lines in an alternating pattern, wherein first thin film transistors of each column of the matrix are connected to one data line of the plurality of data lines and second thin film transistors of the column of the matrix are connected to another data line of the plurality of data lines adjacent to the one data line; [and] a data driver that supplies a video signal to drive the liquid crystal cells connected to the first thin film transistors via the one data line and to drive the liquid crystal cells connected to the second thin film transistors via the another data line.”

In rejecting claims 1 and 12, the Examiner relies on Kondo to teach “liquid crystal cells arranged in a matrix defined by a plurality of gate lines and data lines” citing in particular FIGs. 4A, and the text of paragraphs [0034]-[0035]. See Page 2, paragraph 1 of October 17, 2006 Office Action.

Applicants submit that even taking the Examiner’s conclusion to be correct, Kondo does not teach or suggest the above-identified combination of elements recited by claims 1 and 12. For example, paragraph [0035] states in part “Specifically, even-numbered rows of pixels are

assigned to one substrate 4a while odd-numbered rows of pixels are assigned to the other substrate 4b.” Accordingly, Applicants submit that Kondo does not disclose at least “liquid crystal cells arranged in a matrix defined by a plurality of gate lines crossing a plurality of data lines on a substrate” [[and]] “wherein first thin film transistors of each column of the matrix are connected to one data line of the plurality of data lines and second thin film transistors of the column of the matrix are connected to another data line of the plurality of data lines adjacent to the one data line,” as recited in claim 1, at least because in Kondo, the liquid crystal cells are divided over two substrates with the second thin film transistor in a column being driven by a data line on a different substrate than the data line driving the first thin film transistor. See Kondo, FIG. 8 and 12 additionally showing the display using two substrates 4a and 4b.

The Examiner cites Matsushima as allegedly teaching “an interlayer-insulation material formed by an organic insulation film having a dielectric constant less than about 4” to cure deficiencies in the teachings of Kondo. Applicants do not reach the Examiner’s conclusions regarding the teachings of Matsushima. Applicants submit that Matsushima does not cure the deficiencies in the teachings of Kondo discussed above and that Kondo and Matsushima, analyzed singly or in combination do not teach at least the above-identified combined features of claims 1 and 12. Accordingly, Applicants submit that claims 1 and 12, and claims 3-11 and 13-15 depending respectively from claims 1 and 12 are each allowable over Kondo and Matsushima.

The rejection of claim 2 under 35 U.S.C. §103(a) as being unpatentable over Kondo and Matsushima and further in view of Yamazaki is respectfully traversed and reconsideration is requested. Applicants submit that Kondo, Matsushima and Yamazaki do not teach or suggest each and every element of the claim 2.

Claim 2 depends from claim 1 and includes by reference all of the elements of claim 1. As Applicants have discussed above claim 1 is allowable over Kondo and Matsushima. The Examiner cites Yamazaki as teaching, “an interlayer-insulation material includes a benzocyclobutene (BCB) resin film ([0322], lines 1-2).” Applicants do not reach the Examiner’s conclusion concerning the teaching of Yamazaki. Applicants submit that Yamazaki does not cure the deficiencies in the teachings of Kondo and Matsushima with respect to claim 1. Applicants submit that Kondo, Matsushima and Yamazaki, analyzed singly or in any combination, fail to teach or suggest every element of claim 1. Accordingly, Applicants submit

that claim 1, and claim 2 depending from claim 1 are allowable over Kondo, Matsushima and Yamazaki.


Applicants believe the above remarks and amendments place the application in condition for allowance and early, favorable action is respectfully solicited.

If for any reason the Examiner finds the application other than in condition for allowance, the Examiner is requested to call the undersigned attorney at (202) 496-7500 to discuss the steps necessary for placing the application in condition for allowance. All correspondence should continue to be sent to the below-listed address.

If these papers are not considered timely filed by the Patent and Trademark Office, then a petition is hereby made under 37 C.F.R. § 1.136, and any additional fees required under 37 C.F.R. § 1.136 for any necessary extension of time, or any other fees required to complete the filing of this response, may be charged to Deposit Account No. 50-0911. Please credit any overpayment to deposit Account No. 50-0911. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

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